

# TRUSTED HUB

## **CLIENT SDK**<sup>™</sup>

- Enables applications to quickly and easily integrate with Trusted Hub Appliance
- Provides high-level Java and .Net APIs

Relying parties need to provide enhanced security of data, better accountability, traceability and audit to aid compliance with local legislation, regional directives and internal needs. User Identity, system identity and digital signature verification and validation can add significant value to providing trust and traceability within such business processes. Substantial cost savings can be derived by replacing paper-based processes with secure, electronic ones.

The biggest issue is how can new and any existing applications be readily trust enabled. The answer is by using Mobile-ID<sup>™</sup>'s client software, Trusted Hub Client SDK. Mobile-ID<sup>™</sup> Client SDK also powers Mobile-ID<sup>™</sup>'s Auto File Processor and Secure Email Server applications. Mobile-ID<sup>™</sup>'s web-site also shows live demos.

Trusted Hub Client SDK offers high level APIs that give simple access to the appropriate protocols for various service requests and responses. It supplies all the libraries necessary to easily integrate with relying parties. The following diagram shows how Trusted Hub Appliance can be integrated with high-level calls to the Mobile-ID<sup>™</sup> Java or .NET based client web-services library:



One license for Trusted Hub Client SDK is provided with each Trusted Hub Appliance. Trusted Hub vSignPlugin Desktop is also included within the software since this is often used with Trusted Hub Client SDK however a separate license is required to use the Trusted Hub vSignPlugin Desktop software. Trusted Hub Client SDK includes these options:

#### • Java API

with an CSC JSON/RESTful web services interface, plus an optimized HTTP interface for signing, supported on Java 5 and Java 6 application environments

.NET API

with an CSC JSON/RESTful web services interface, plus an optimized HTTP interface for signing, uses .NET Framework 2.0+

### Why use Trusted Hub Client SDK

- One copy of Trusted Hub Client SDK is licensed for use with each production Trusted Hub Appliance license that is purchased.
  - The SDK provides easy access to these functions:
  - Signing and verifying PDF, XML data, Files etc., using CSC protocols
    - Timestamping
    - Validation using SCVP, XKMS (and CSC)
    - Archiving using ETSI AdES-A and LTANS
  - Decryption using CSC (e.g. used when vSignPlugin Client has encrypted in-bound data ideal for tenders, health data, etc.)
- Supports PDF, XML DSig, PKCS#7, CMS & S/MIME plus ETSI AdES -BES/-T/-C/-X/-X-Long/-A formats
- → Supports local hashing of data and signature handling and embedding for PDF documents
- Supports the signing of one or multiple documents in a single call to Trusted Hub Appliance
- → Facilitates the verification of signatures with a full range of "Respond With" attributes as well as PEPPOL signature and certificate trust ratings
- Facilitates the use of Trusted Hub vSignPlugin Desktop by providing the linkage to Trusted Hub Appliance for back-end services such as obtaining long-term signature data and verifying/enhancing any remote vSignPlugin Desktop signatures
- Always keeps in step with Trusted Hub Appliance features to ensure easy access to, and use of, the latest features
- Developers are also able to create their own web-service calls to Trusted Hub Appliance using the supplied WSDL files. It should be noted that the Trusted Hub Client SDK will save considerable development and test time
- Trusted Hub Client SDK also offers the option of using direct HTTP/S based signing services to save the overheads of handle large documents via web services
- → Java versions are available for virtually any platform. Java 6 versions are available from the product download site and Java 5 versions are available on request. .NET versions are available for Windows platforms (requires .NET framework v2+)

The following diagram illustrates how Trusted Hub Client SDK is used to advantage within ERP, ECM CRM applications today for internal and external sign-off and approval, signature verification, bulk document signing and indeed any trust service request made to Trusted Hub Appliance.



Trusted Hub Client SDK provides APIs for signing, verification and encryption, using CSC, APIs for certificate management using CMC, certificate validation using OCSP, SCVP and XKMS and archiving services using LTANS (as well as ETSI AdES-A signing).

Trusted Hub Appliance provides high level security services whilst removing all the lower-level complexities from the business environment. Trusted Hub Appliance administrators define acceptable policies and profiles as well as how they will be applied and how they will be presented. They then permit or deny client applications the right to use these, e.g. the "invoice signing" profile should only be allowed by the specific finance department invoicing application.

Trusted Hub Client SDK enables this interaction and simplifies the task. It is quite possible to get an initial application integrated within just four hours – this is feedback from one of our customers that downloaded our evaluation software and with no prior knowledge added signing to their documents.

### S Further Information

With so many options Mobile-ID<sup>M</sup> and its partners can help to define the best options to meet various business, legislative and regulatory needs and reduce the risks and costs involved in creating, sending, receiving and storing e-business documents. The many capabilities of Trusted Hub Appliance can be used to solve today's needs and also offer tremendous investment protection to meet the changing needs of tomorrow.

Trusted Hub Appliance has been designed to meet the needs of SMEs, large national and multi-national organizations, managed service providers and regional trust schemes. It does this by providing flexibility, resilience, scalability, combined with strong internal security, management, audit logging and reporting.

#### N Trusted Hub Client SDK Standards Compliance:

| Signature generation:    | PDF signatures. XML DSig, ETSI PAdES, CAdES, XAdES (-T/-C/-X-Long/-EPES/-A), CMS/PKCS#7, S/MIME |
|--------------------------|---|
| Signature protocols:     | CSC 1.0.4.0 over JSON/RESTful and a faster HTTP/S protocol                                      |
| Verification protocols:  | CSC 1.0.4.0 over JSON/RESTful and a faster HTTP/S protocol                                      |
| Validation protocols:    | OCSP, CRLs, SCVP and XKMS (also available using CSC protocols)                                  |
| Certification protocols: | Web services and CMC protocols  |
| Timestamp protocols:     | RFC 3161 TSP  |
| Archiving protocol:      | IETF LTANS LTAP   |
| Operating Systems:       | Windows Server 2016/2012 R2/2012/2008 R2, Linux (RedHat, CentOS, SuSe, others), Solaris         |
| Language Support:        | Java for any platform plus. NET v2.0+ on Windows servers  |
|                          |   |



www.mobile-id.vn
info@mobile-id.vn
1900 6884

Mobile-ID Technologies and Services Joint Stock Company